# THE OFFICE OF CLEAN ENERGY DEMONSTRATIONS

OCED
Office of Clean Energy Demonstrations

## Overview

The U.S. Department of Energy (DOE) established the Office of Clean Energy Demonstrations (OCED) to help scale the emerging technologies needed to tackle our most pressing climate challenges and achieve net-zero emissions by 2050.

OCED received more than $25 billion in funding from the Bipartisan Infrastructure Law and Inflation Reduction Act to deliver clean energy demonstration projects at scale in partnership with the private sector to accelerate deployment, market adoption, and the equitable transition to a decarbonized system.

## Project Oversight

To ensure the success of its projects, OCED is focused on demonstration project management oversight excellence. OCED will apply lessons learned from past DOE demonstrations and the private sector to enhance how it oversees projects. OCED will also support other offices to ensure a consistent approach to implementing these projects across DOE.

OCED also seeks to ensure excellence as it advances energy and environmental justice in large-scale demonstration projects to support an equitable clean energy transition. OCED will ensure the workforce and local communities are a key part of the solution to build an equitable clean energy future.

## Project Portfolio

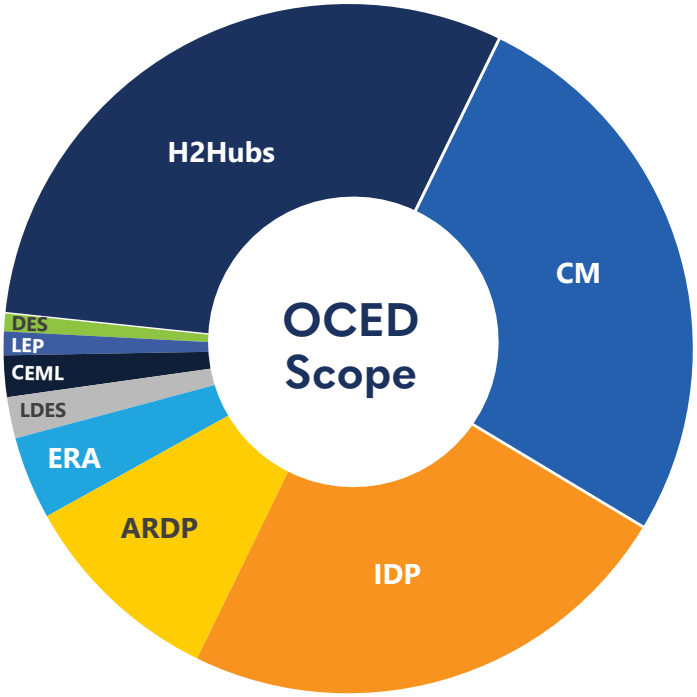
- Regional Clean Hydrogen Hubs (H2Hubs) $8 billion
- Carbon Management (CM) Regional Direct Air Capture Hubs, Carbon-Capture Demos & Large-Scale Pilot Projects $7 billion
- Industrial Demonstrations (IDP) $6.3 billion
- Advanced Reactor Demonstration Projects (ARDP) $2.5 billion
- Energy Improvements in Rural or Remote Areas (ERA) $1 billion
- Long-Duration Energy Storage Demonstrations (LDES) $505 million
- Clean Energy Demonstrations on Mine Land (CEML) $500 million
- Liftoff Enabling Programs (LEP) $133 million
- Distributed Energy Systems Demonstrations (DES) $50 million

## What Does OCED Do?

OCED is a multi-technology office with demonstrations that include clean hydrogen, carbon management, industrial decarbonization, distributed energy systems, advanced nuclear reactors, long-duration energy storage, demonstration projects in rural or remote areas and on current and former mine land, and more.

The technologies in OCED's portfolio face significant barriers to scale. OCED's role is to address these barriers and help de-risk them. Central to OCED's approach is consistent engagement with a wide range of stakeholders and pursuit of projects that advance an equitable transition by providing benefits to communities across America.

Most of OCED's projects are structured as collaborative partnerships that use cost share agreements. OCED will provide up to 50 percent of the funding in its public-private partnerships, assisting its industry partners with the early steps to commercialization and deployment.



# Energy Improvements in Rural or Remote Areas

**Funding Amount: $1 billion**

## Program Info

**Overview:** The Energy Improvements in Rural or Remote Areas (ERA) program will improve the resilience, reliability, and affordability of energy systems in communities across the country with 10,000 or fewer people. This program will modernize electric generation facilities, address disproportionately high electricity costs, and support new economic opportunities in America's rural and remote communities.

Nearly one in six Americans live in a rural or remote community. Due to low population density and isolation from larger electric systems, these communities face higher energy costs and poor electrical reliability.

The ERA program will fund community-driven energy projects that:

- Deliver measurable benefits to energy customers in rural or remote areas by funding replicable energy projects that lower energy costs, improve energy access and resilience, and/or reduce environmental harm.
- Demonstrate new rural or remote energy system models using climate-resilient technologies, business structures that promote economic resilience, new financing mechanisms, and/or new community engagement best practices.
- Build clean energy knowledge, capacity, and self-reliance throughout rural America.

## Contact Info

**Email:** OCED@hq.doe.gov

**Website:** energy.gov/oced/ERA

## More Resources

**Technical Assistance:** No-cost technical assistance is available to communities and organizations for energy improvements in rural or remote areas. Visit: nrel.gov/state-local-tribal/era-technical-assistance.html

**Energizing Rural Communities Prize:** Prize competition for innovative partnership and finance plans to help rural or remote communities develop clean energy demonstration projects. Visit: herox.com/rural-energy

**ERA Program Geospatial Dashboard Tool:** Platform to view characteristics of rural America from an energy infrastructure and socioeconomic basis, including social equity and environmental justice considerations. Visit: **experience.arcgis.com/experience/3183956268db4613be473fd5c8576d38**